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DATE MAILED: 03/13/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,678	07/15/2003	Christopher A. Smith	343.7121USV	7064
7590 03/13/2006			EXAMINER	
PAUL D. GREELEY, ESQ.			BECKER, DREW E	
OHLANDT, GREELEY, RUGGIERO PERLE, L.L.P. 10th FLOOR			ART UNIT	PAPER NUMBER
ONE LANDMARK SQUARE			1761	
STAMFORD, CT 06901-2682			DATE MAILED: 03/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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1)⊠ Responsive to communication(s) filed on 27 October 2003.  2a)☐ This action is FINAL. 2b)☐ This action is non-final.  3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)☒ Claim(s) 20-30 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)☐ Claim(s) is/are allowed.  6)☐ Claim(s) is/are objected.  7)☐ Claim(s) is/are objected to.  8)☒ Claim(s) 20-30 are subject to restriction and/or election requirement.  Application Papers  9)☐ The specification is objected to by the Examiner.  10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)☒ (All b)☐ Some * c)☐ None of:  1.☐ Certified copies of the priority documents have been received.  2.☒ Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.		Application No.	Applicant(s)					
Drew E. Becker  The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ƒ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Eatherized in the may be available under the proteined of 37 CFR 1.18(i), in the overt, however, may a reply be limity filed  If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  Fallur to reply within its est or extended period for reply is specified above, the maximum statutory proteined will exply and will expire SIX (6) MONTHS from the mailing date of this communication.  Fallur to reply within the set or extended period for reply is specified above, the maximum statutory proteined will exply and use prior to the mailing date of this communication.  Fallur to reply within the set or extended period for reply its postulation.  Fallur to reply within the set or extended period for reply will. by statuse, can be explication of Cities.  This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in a coordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 20-30 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  7) Claim(s) is/are allowed.  8) Claim(s)		10/619,678	SMITH ET AL.					
Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Eathering of the may be varied used for the communication of 37 cFt 1.15(a). In a ceven, may a reply be limely filed after SIX (8) MONTHS from the mailing date of this communication.  Findingent of the reply is specified used the provided of the specified and set SIX (8) MONTHS from the mailing date of this communication.  Findingent of the reply is specified used in the provided of the specified of the specified and set SIX (8) MONTHS from the mailing date of this communication.  Findingent of the specified specified on 27 October 2003.  Any reply received by the Office later than these months after the making date of this communication, even if timely filed, may reduce any oceaned pathetic for adjustment of the specified specified and set of the communication, even if timely filed, may reduce any oceaned pathetic for adjustment of the specified spe	Oπice Action Summary	Examiner	Art Unit					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE \$\frac{t}{2}\$ MONTH(\$) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Examinous of time may be available under the provisions of 37 CFR 1.36(a), in no event, however, may a regipt be limitely filed  - Examinous of time may be available under the provisions of 37 CFR 1.36(a), in no event, however, may a regipt be limitely filed  - If No pands for regyls specified above, the maximum statutory period will apply and will expire at \$\frac{t}{2}\$ (e) MONTHS from the mailing date of this communication, even if timely filed, may reduce any version plaint time adjustment. See 37 CFR 1.76(b).  - Fallwr to repy within the set or extended period for repy will, by atalute, cause the application to become ABANDONED (33 U.S.C. § 133).  - Any repy received by the office the bath bream points after the mailing date of this communication, even if timely filed, may reduce any version plaint time adjustment. See 37 CFR 1.76(b).  - Status  1) MR Responsive to communication(s) filed on 27 October 2003.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 20-30 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Is/are allowed.  5) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  6) Claim(s) is/are objected to.  8) Claim(s) is/are objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be		Drew E. Becker	1761					
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1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 2554345 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Attachment (PTO-948)  Attachment (PTO-948)	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
Attachment(s)  1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date	<ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No. 5454345</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date	* See the attached detailed Office action for a list of the certified copies not received.							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date	Attachment(s)							
Paper No(s)/Mail Date 6) Other:	3) Information Disclosure Statement(s) (PTO-1449 or PTC	0/SB/08) 5) ☐ Notice	e of Informal Patent Application (PT	O-152)				

Application/Control Number: 10/619,678 Page 2

Art Unit: 1761

## **DETAILED ACTION**

## Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 20-25, drawn to an apparatus.

Group II, claim(s) 26-30, drawn to a method.

2. The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of group I (ie the orifice with a shape which decreases in width in the direction of rotation) is not required in group II.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Application/Control Number: 10/619,678 Page 3

Art Unit: 1761

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Drew E. Becker whose telephone number is 571-272-1396. The examiner can normally be reached on Mon.-Fri. 8am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Milton Cano can be reached on 571-272-1398. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DREW BECKER
PRIMARY EXAMINER